Krantiguru Shyamji Krishna Verma Kachchh University Post Graduate Diploma in Computer Applications Semester: II

Paper Code: CECS206	Total Credit : 4
Title of Paper: Cyber Security	Total Marks: 70
	Time: 3 Hrs

Unit	Description	Weighting
	Introduction, Cybercrime: Definition and Origins of the Word,	20%
	Cybercrime and Information Security, Who are Cybercriminals?	
	Classifications of Cybercrimes: E-Mail Spoofing, Spamming,	
	Cyber defamation, Internet Time Theft, Salami Attack/Salami	
	Technique, Data Diddling, Forgery, Web Jacking, Newsgroup	
I	Spam/Crimes Emanating from Usenet Newsgroup, Industrial	
	Spying/Industrial Espionage, Hacking, Online Frauds,	
	Pornographic Offenses , Software Piracy, Computer Sabotage,	
	E-Mail Bombing/Mail Bombs, Usenet Newsgroup as the Source	
	of Cybercrimes , Computer Network Intrusions, Password	
	Sniffing, Credit Card Frauds, Identity Theft	
	Introduction, Categories of Cybercrime, How Criminals Plan	20%
	the Attacks: Reconnaissance, Passive Attack, Active Attacks,	
	Scanning/Scrutinizing gathered Information, Attack (Gaining	
II	and Maintaining the System Access), Social Engineering, and	
	Classification of Social Engineering, Cyberstalking: Types of	
	Stalkers, Cases Reported on Cyberstalking, How Stalking	
	Works? Real-Life Incident of Cyberstalking, Cybercafe and	
	Cybercrimes, Botnets: The Fuel for Cybercrime, Botnet, Attack	
	Vector Cloud Computing: Why Cloud Computing? , Types of	
	Services, Cybercrime and Cloud Computing.	
III	Introduction, Proliferation of Mobile and Wireless Devices,	20%
	Trends in Mobility, Credit Card Frauds in Mobile and Wireless	
	Computing Era: Types and Techniques of Credit Card Frauds,	
	Security Challenges Posed by Mobile Devices, Registry	
	Settings for Mobile Devices Authentication Service Security:	
	Cryptographic Security for Mobile Devices, LDAP Security for	
	Hand-Held Mobile Computing Devices, RAS Security for	
	Mobile Devices, Media Player Control Security, Networking	
	API Security for Mobile Computing Applications, Attacks on	
	Mobile/Cell Phones: Mobile Phone Theft, Mobile Viruses,	
	Mishing, Vishing, Smishing, Hacking Bluetooth, Mobile	
	Devices: Security Implications for Organizations: Managing	
	Diversity and Proliferation of Hand-Held Devices,	
	Unconventional/Stealth Storage Devices Threats through Lost	
	and Stolen Devices, Protecting Data on Lost Devices, Educating	
	the Laptop Users Introduction Provy Servers and Anonymizers Phishing: How	2004
IV	Introduction, Proxy Servers and Anonymizers, Phishing: How Phishing Works? Password Cracking: Online Attacks, Offline	20%
1 V	Attacks, Strong, Weak and Random Passwords, Random	
	Passwords, Keyloggers and Spywares: Software Keyloggers,	
	Hardware Keyloggers, Antikeylogger, Spywares, Virus and	
	Worms: Types of Viruses, Trojan Horses and Backdoors:	
	Backdoor, How to Protect from Trojan Horses and Backdoors,	
	Steganography: Steganalysis, DoS and DDoS Attacks: DoS	
	Attacks, Classification of DoS Attacks, Types or Levels of DoS	
	Attacks, Tools Used to Launch DoS Attacks, DDoS Attacks,	
	How to Protect from Dos/DDos Attacks, SQL Injection: Steps	
	for SQL Injection Attack, How to Avoid SQL Injection Attacks	
	Introduction, Why Do We Need Cyberlaws: The Indian	20%
V	Context, The Indian IT Act: Admissibility of Electronic	2070
V	Context, The Indian II Act. Admissionity of Electronic	

Records: Amendments made in the Indian ITA 2000, Positive Aspects of the ITA 2000, The Weak Areas of the ITA 2000, Challenges to Indian Law and Cybercrime Scenario in India, Consequences of Not Addressing the Weakness in Information Technology Act Amendments to the Indian ITA 2008: Overview of Changes Made to the Indian IT Act, Cybercafe-Related Matters Addressed in the Amendment to the Indian IT Act, State Government Powers Impacted by the Amendments to the Indian IT Act, Impact of IT Act Amendments Impact Information Technology Organizations, Cybercrime and Punishment, Cyberlaw, Technology and Students: Indian Scenario

Basic Text & Reference Books: 1. "Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives", Nina Godbole, Sunit Belapur, Wiley India Publications, April, 2011 2. "Cyberlaw: The Indian Perspective" by Pavan Duggal, Saakshar Law Publications, Delhi. 3. Indian Legislation On Cyber Crime, S.R. Sharma, Anmol Publications 4. Cyber Laws, Yatindra Singh, Universal Law Publishing Co 5. The Information Technology Act, 200 – Universal Law Publishing Co

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Unit	Description		Total Marks
I	Q.1(A) Short / Medium Questions (With Internal Option)	06	14
	Q.1(B) Short / Medium Questions (With Internal Option)	08	
П	Q.2(A) Short / Medium Questions (With Internal Option)	06	
	Q.2(B) Short / Medium Questions (With Internal Option)	08	14
III	Q.3(A) Short / Medium Questions (With Internal Option)	06	
	Q.3(A) Short / Medium Questions (With Internal Option)	08	14
IV	Q.4(A) Short / Medium Questions (With Internal Option)	06	14
	Q.4(B) Short / Medium Questions (With Internal Option)	08	
V	Q.5(A) Short / Medium Questions (With Internal Option)	06	14
	Q.5(B) Short / Medium Questions (With Internal Option)	08	